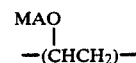


-continued

NI	0.8	6.4	1.2	0.3	1.0	1.0	—
Q ₁	—	—	—	—	—	—	—
Q ₂	—	—	—	—	—	—	5.0
A ₁	—	—	—	—	—	—	—
BENT	—	—	—	—	—	—	6.0
STPP	—	5.6	25.0	39.4	—	—	28.0
PYRO	—	22.4	5.9	—	—	—	—
NTA	—	—	—	—	—	—	3.0
Z ₄ A	29.0	—	—	—	27.0	10.0	—
CARB	17.0	12.2	16.8	12.0	17.0	15.0	12.0
SIL	2.5	6.0	4.7	5.5	2.0	2.0	6.0
ODS	—	—	—	—	—	—	—
TMS/TDS	—	—	—	—	—	—	—
ACR1	6.0	—	—	—	—	—	—
ACR2	—	—	—	—	—	—	—
MgSO ₄	2.0	—	—	—	—	—	—
Na ₂ SO ₄	15.0	20.0	10.0	7.0	20.0	20.0	24.0
Chelant	1.0	—	0.4	—	—	—	—
CMC	—	—	—	—	—	—	—
PB ₄	15.0	5.0	5.0	—	—	—	—
PB ₁	4.0	—	—	—	—	—	—
TAED	3.0	2.0	—	—	—	—	—
NOBS	—	—	8.0	—	—	—	—
INOBS	1.0	—	—	—	—	—	—
SRP	1.0	—	—	—	—	—	—
Product of Example 17	4.0	4.0	4.0	3.0	6.0	10.0	2.0
H ₂ O and minors	To 100						
		36	37	38	39		
LAS		6.0	6.0	14.0	—		
TAS		3.0	3.0	—	—		
NI		6.0	6.0	—	12.0		
CARB		10.0	7.0	—	—		
SIL		7.0	3.0	—	—		
Na ₂ SO ₄		15.0	20.0	20.0	20.0		
PB ₄		18.0	10.0	10.0	2.0		
TAED		2.0	2.0	2.0	2.0		
Product of Example 17		20.0	25.0	30.0	15.0		
H ₂ O and minors		To 100					

What is claimed is:

1. A random copolymer especially adapted for use as a dispersant in laundry detergent compositions, said random copolymer having a molecular weight in the range from about 635 to about 50,000 and comprising from about 0.10 to about 0.95 mole fraction of repeat units of the formula



wherein M is sodium, A is selected from —OC(O)C(L)HCH₂(O)C—, —OC(O)CH₂C(L)H(O)C— and mixtures thereof and L is selected from the group consisting of aspartate, glutamate, glycinate, ethanolamino, β-alanate, taurine, aminoethylsulfate, alanate, sarcosinate, N-methylethanolamino, iminodiacetate, 6-aminohexanoate, N-methylaspartate and diethanolamino; wherein said random copolymer is produced by a process comprising

(i) reacting a polyvinyl alcohol with maleic anhydride to produce a butenedioate half-ester of said polyvinyl alcohol; and

(ii) reacting said butenedioate half-ester with an amine reactant selected from the group consisting of aspartic acid, glutamic acid, glycine, β-alanine, ethanolamino, taurine, aminoethylsulfate, alanine, sarcosine, N-methylethanolamine, iminodiacetic acid, 6-aminohexanoic acid, N-methylaspartic acid and diethanolamine;

provided that in step (ii), the alkalinity is controlled by means of a carbonate-buffered reaction medium.

2. A random copolymer according to claim 1 wherein in step (ii), said reaction medium is a concentrated aqueous reaction medium.

3. A random copolymer according to claim 2 wherein L is aspartate and said amine reactant is aspartic acid.

4. A random copolymer according to claim 3 wherein step (i) comprises reacting a mixture formed from said polyvinylalcohol and said maleic anhydride together with tetrahydrofuran and an effective amount of a sodium acetate catalyst; provided that said mixture comprises in total no more than from about 5% to about 20% tetrahydrofuran; whereby a high yield of said butenedioate half-ester is secured.

5. A random copolymer according to claim 4 wherein the butenedioate half-ester of said polyvinyl alcohol, produced in step (i), is, prior to step (ii), purified by partitioning into the lower layer of a tetrahydrofuran/water mixture, said mixture having a volume/volume ratio of said tetrahydrofuran and water ranging from about 1/2 to about 1/12.

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